

Comparison of preharvest treatments for dry bean desiccation - SVREC

Trial ID: DB09-25 Study Dir.: Stiles, Sprague
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: Jun-13-2025 **Row Spacing:** 30 IN
Variety: "Viper" small red bean **No. of Reps:** 4
Population: 109000 S/A **% OM:** 2.3
Soil Type: CL clay loam **pH:** 7.5
Plot Size: 10 X 28 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow: spring cultivated.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			

Crop	Code	Common Name
1	PHSVX	dry bean

Application Description

Application Timing: A
Date Treated: PREHARV
Time Treated: Sep-2-2025
% Cloud Cover: 25
Air Temp., Unit: 75 F
% Relative Humidity: 50
Wind Speed/Unit/Dir: 2 MPH E
Soil Temp, Unit: 68 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A
 PHSVX
Height: 18-20 IN (20)
Stage: 80%Y-

Weed Stage at Each Application

Weed 1 Name: A
Height:
Stage:

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11002	36.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	40 PSI

Comments:

Desiccation treatments were applied at 80% yellow pods. Viper small red beans are known to have pods mature prior to leaves yellowing. Weed control = Eptam (1 qt/A) + Dual II Magnum (1.33 pt/A) + Satellite Hydrocap (1 qt/A) PPI on May 28. Fertilizer = 330 lb/A of 16-16-13 broadcast and incorporated on May 27.

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Protocol ID: DB09-25 Location: SVREC Trial Year: 2025
Study Director: Stiles, Sprague Sponsor Contact:
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Rating Date					Sep-5-2025	Sep-5-2025	Sep-5-2025	Sep-5-2025	Sep-9-2025	Sep-9-2025	Sep-9-2025
Rating Type					leaf	stem	pod	whole plant	leaf	stem	pod
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval					3 DA-A	3 DA-A	3 DA-A	3 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals					0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
1	Reviton	1 fl oz/a	A	PREHARV	74	81	83	73	78	94	95
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
2	Reviton	1.5 fl oz/a	A	PREHARV	71	84	83	71	76	92	97
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
3	Reviton	2 fl oz/a	A	PREHARV	74	85	85	72	79	96	97
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
4	Untreated				55	80	80	56	59	83	85
5	Sharpen	1 fl oz/a	A	PREHARV	73	85	87	74	76	90	97
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
6	Sharpen	1.5 fl oz/a	A	PREHARV	73	86	85	72	78	91	97
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
7	Sharpen	2 fl oz/a	A	PREHARV	78	85	85	78	82	94	96
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
8	Helmquat	12.8 fl oz/a	A	PREHARV	60	83	85	65	63	88	87
	Surfactant	0.25 % v/v	A	PREHARV							
	AMS	3 lb/a	A	PREHARV							
9	Helmquat	20.8 fl oz/a	A	PREHARV	68	82	85	69	72	83	83
	Surfactant	0.25 % v/v	A	PREHARV							
	AMS	3 lb/a	A	PREHARV							
10	Valor SX	3 oz/a	A	PREHARV	67	84	85	68	71	89	94
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
11	Sharpen	1 fl oz/a	A	PREHARV	80	85	84	81	83	91	92
	Helmquat	21 fl oz/a	A	PREHARV							
	MSO	1 % v/v	A	PREHARV							
	AMS	8.5 lb/100 gal	A	PREHARV							
12	Defol 5	2.4 qt/a	A	PREHARV	84	76	86	76	87	78	81
	MSO	1 % v/v	A	PREHARV							
LSD P=.05					6.7	2.8	1.0	6.0	6.6	4.9	5.5
Standard Deviation					4.7	1.9	0.7	4.2	4.6	3.4	3.8
CV					6.54	2.32	0.82	5.86	6.12	3.86	4.16

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Rating Date	Sep-9-2025	Sep-9-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025	Sep-15-2025
Rating Type	whole plant	leaf drop	leaf	stem	pod	whole plant	leaf drop
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX	C, PHSVX
Treatment Appl. Interval	7 DA-A	7 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Appl Code	Appl Timing			
		Rate Unit					
1	Reviton	1 fl oz/a	A	PREHARV	78	45	100
	MSO	1 % v/v	A	PREHARV			98
	AMS	8.5 lb/100 gal	A	PREHARV			100
2	Reviton	1.5 fl oz/a	A	PREHARV	76	49	99
	MSO	1 % v/v	A	PREHARV			99
	AMS	8.5 lb/100 gal	A	PREHARV			100
3	Reviton	2 fl oz/a	A	PREHARV	79	46	100
	MSO	1 % v/v	A	PREHARV			100
	AMS	8.5 lb/100 gal	A	PREHARV			100
4	Untreated				61	60	88
5	Sharpen	1 fl oz/a	A	PREHARV	78	48	95
	MSO	1 % v/v	A	PREHARV			96
	AMS	8.5 lb/100 gal	A	PREHARV			98
6	Sharpen	1.5 fl oz/a	A	PREHARV	75	49	99
	MSO	1 % v/v	A	PREHARV			99
	AMS	8.5 lb/100 gal	A	PREHARV			100
7	Sharpen	2 fl oz/a	A	PREHARV	83	48	100
	MSO	1 % v/v	A	PREHARV			98
	AMS	8.5 lb/100 gal	A	PREHARV			100
8	Helmquat	12.8 fl oz/a	A	PREHARV	66	49	96
	Surfactant	0.25 % v/v	A	PREHARV			95
	AMS	3 lb/a	A	PREHARV			97
9	Helmquat	20.8 fl oz/a	A	PREHARV	73	60	98
	Surfactant	0.25 % v/v	A	PREHARV			97
	AMS	3 lb/a	A	PREHARV			99
10	Valor SX	3 oz/a	A	PREHARV	72	41	99
	MSO	1 % v/v	A	PREHARV			98
	AMS	8.5 lb/100 gal	A	PREHARV			100
11	Sharpen	1 fl oz/a	A	PREHARV	84	43	99
	Helmquat	21 fl oz/a	A	PREHARV			97
	MSO	1 % v/v	A	PREHARV			98
	AMS	8.5 lb/100 gal	A	PREHARV			98
12	Defol 5	2.4 qt/a	A	PREHARV	79	50	99
	MSO	1 % v/v	A	PREHARV			98
LSD P=.05					6.7	5.9	5.7
Standard Deviation					4.7	4.1	4.0
CV					6.23	8.39	4.08
							2.48
							1.5
							1.65
							4.42

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Study Director: Stiles, Sprague Sponsor Contact:
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Rating Date	Sep-17-2025	Sep-17-2025
Rating Type	moisture	yield
Rating Unit	%	cwt/A
Crop Type, Code	C, PHSVX	C, PHSVX
Treatment Appl. Interval		@18% M
Number of Decimals	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing		
1	Reviton	1 fl oz/a		A	PREHARV	15.1	21.9
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
2	Reviton	1.5 fl oz/a		A	PREHARV	14.5	21.7
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
3	Reviton	2 fl oz/a		A	PREHARV	14.5	22.4
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
4	Untreated					16.5	26.3
5	Sharpen	1 fl oz/a		A	PREHARV	15.6	24.7
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
6	Sharpen	1.5 fl oz/a		A	PREHARV	15.0	22.1
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
7	Sharpen	2 fl oz/a		A	PREHARV	13.8	23.6
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
8	Helmquat	12.8 fl oz/a		A	PREHARV	16.3	24.3
	Surfactant	0.25 % v/v		A	PREHARV		
	AMS	3 lb/a	A	PREHARV			
9	Helmquat	20.8 fl oz/a		A	PREHARV	15.9	25.1
	Surfactant	0.25 % v/v		A	PREHARV		
	AMS	3 lb/a	A	PREHARV			
10	Valor SX	3 oz/a		A	PREHARV	15.6	25.2
	MSO	1 % v/v		A	PREHARV		
	AMS	8.5 lb/100 gal	A	PREHARV			
11	Sharpen	1 fl oz/a		A	PREHARV	14.9	22.5
	Helmquat	21 fl oz/a		A	PREHARV		
	MSO	1 % v/v		A	PREHARV		
12	Defol 5	2.4 qt/a		A	PREHARV	16.4	25.2
	MSO	1 % v/v		A	PREHARV		
LSD P=.05						1.06	2.51
Standard Deviation						0.74	1.75
CV						4.81	7.35